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OM nucleic - nucleic search, using sw model

Run on: June 17, 2003, 16:25:00 ; Search time 163.101 Seconds
(without alignments)
10334.327 Million cell updates/sec

Title: US-09-807-933b-10

Perfect score: 1164

Sequence: 1 atgaagtcacccgttcctat.....cagtttcgaaagaagtaaa 1164

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%

Listing first 45 summaries

Database : Published Applications NA.*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US05_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
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13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	221.4	19.0	1473	10	US-09-735-787-3
2	207.4	17.8	1423	9	US-10-007-521-9
3	186	16.0	1154	9	US-10-007-521-7
4	184	15.8	1154	9	US-10-007-521-11
5	179.4	15.4	1060	10	US-09-735-787-1
6	179.2	15.4	808	9	US-10-007-521-15
7	179.2	15.4	1261	9	US-09-261-329-23
8	179	15.4	894	9	US-10-007-521-3
9	179	15.4	927	9	US-10-007-521-5
10	179	15.4	960	9	US-10-007-521-1
11	178.4	15.3	1031	9	US-10-007-521-19
12	178.4	15.3	1048	9	US-10-007-521-17
13	177.6	15.3	1132	9	US-10-007-521-21
14	168.4	14.5	913	9	US-10-007-521-13
15	168.2	14.5	885	9	US-10-007-521-23
16	133.6	11.5	425	9	US-10-007-521-25
17	104	8.9	936	7	US-08-841-636A-30
18	68.8	5.9	225	9	US-10-007-521-31
19	67.8	5.8	159	9	US-10-007-521-71

20	63.8	5.5	177	9	US-10-007-521-33	Sequence 33, Appl
21	61	5.2	180	9	US-10-007-521-69	Sequence 69, Appl
22	60.6	5.2	159	9	US-10-007-521-47	Sequence 47, Appl
23	59	5.1	455	10	US-09-864-761-16588	Sequence 16588, A
24	58.6	5.0	1635	10	US-09-864-761-20241	Sequence 20241, A
25	58.6	5.0	1973	10	US-09-864-761-3471	Sequence 3471, A
26	58	5.0	1075	10	US-09-864-761-19241	Sequence 19241, A
27	58	5.0	1403	10	US-09-864-761-2513	Sequence 2513, Ap
28	56.4	4.8	114	9	US-10-007-521-61	Sequence 61, Appl
29	55.6	4.8	476	10	US-09-864-761-6	Sequence 6, Appli
30	55.2	4.7	436	10	US-09-864-761-2885	Sequence 2885, Ap
31	55	4.7	298	10	US-09-864-761-33063	Sequence 33063, A
32	54	4.6	171	9	US-10-007-521-51	Sequence 51, Appl
33	54	4.6	249	10	US-09-864-761-16846	Sequence 16846, A
34	53.8	4.6	180	9	US-10-007-521-41	Sequence 41, Appl
35	53	4.6	5526	9	US-10-083-357-668	Sequence 668, App
36	52.8	4.5	446	10	US-09-864-761-20699	Sequence 20699, A
37	52	4.5	165	9	US-10-007-521-77	Sequence 77, Appl
38	50.4	4.3	867	10	US-09-216-393-340	Sequence 340, App
39	50.4	4.3	867	10	US-09-216-393-342	Sequence 342, App
40	50.4	4.3	1397	10	US-09-216-393-343	Sequence 343, App
41	50.4	4.3	1397	10	US-09-216-393-345	Sequence 345, App
42	49.8	4.3	479	10	US-09-864-761-768	Sequence 768, App
43	49.8	4.3	830	10	US-09-864-761-19531	Sequence 19531, A
44	49.6	4.3	160	9	US-10-007-521-75	Sequence 75, Appl
45	49.6	4.3	1635	10	US-09-864-761-20241	Sequence 20241, A

ALIGNMENTS

RESULT 1
US-09-735-787-3
Sequence 3, Application US/09735787
Patent No. US20010036910A1
GENERAL INFORMATION:
APPLICANT: Raemussen, Grethe
Mikkelsen, Jan Moller
Schleisin, Martin
Parker, Shankar A.
Hagen, Fred
TITLE OF INVENTION: A Cellulase Preparation Comprising an
Endoglucanase Enzyme
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSER: No. US20010036910A10 No. US20010036910A1disk of No. US20010036910A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/735,787
FILING DATE: 13-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,028
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3469,214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1473 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Fusarium oxysporum
STRAIN: DSM 2672
FEATURE:
NAME/KEY: CDS
LOCATION: 97..1224
SEQUENCE DESCRIPTION: SEQ ID NO: 3
US-09-735-787-3

Query Match 19.0%; Score 221.4; DB 10; Length 1473;
Best Local Similarity 63.9%; Pred. No. 4.9e-59;
Matches 371; Conservative 0; Mismatches 201; Indels 9; Gaps 2;

547 TCTGGCAGTGTTCACCAACTCGTTATTGGATTGTGTAAGCTTCTTGACGCTGACT 606
151 TCTGGAGCGGTCACTCTACTCAGTACCTGGATTGCTGCAAGCTTCTTGCTGAGC 210
607 GGAAGACCTTCTGCTACTGCTCTGTTGACACCTGCTCCAAATGATCTTTATTA 666
211 GGAAGCTGCTGCTCAACGCCCTGCTTAACTTGATAAGAACGACCAACCCATTTC 270
667 GATGCCAATGCTCAAAATGTTGTA---CGTGGTAAATGTTCAATGATTAACAAC 723
271 AACACCAATGCTCAACGTTGTAAGGTTGATGTTGCTTATGCTTGAACCACTAC 330
724 CAACCTTGGGCTGCTCAATGATGATGACCTGCTTACGCTTCTGCTGCTTATGCTGC 783
331 TCTCCCGGGCTGCAACGATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 390
784 TCCACGAGTGTGATGTTGTTGCTGCTTATGATGATGATGATGATGATGATGATG 843
391 GGTCCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 450
844 TCTGGAAGAGATGTTGTTCAAGTTACCAACCGGTTGCGATTAAGGCTTAACAC 903
451 AAGGCAAGAGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 510
904 TTGATTTGCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 963
511 TTGATGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 570
964 GGCCTCCCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1023
571 GG-----CAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 624
1024 GCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1083
625 GATGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 684
1084 TCTGATTAACCTTACATGACCTTCAAGAGATTAACCTGCTC 1124
685 GCCGCAACCTGACTTCACTTGAAGAGGTTCAAGTCC 725

RESULT 2
US-10-007-521-9
Sequence 9, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schulin, Martin
Andersen, Lene N.
Lassen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endogluconases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSER: No. US20030054539A1 No. US20030054539A1 disk of No. US20030054;
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1423 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 110..1156
SEQUENCE DESCRIPTION: SEQ ID NO: 9;
US-10-007-521-9

Query Match 17.8%; Score 207.4; DB 9; Length 1423;
Best Local Similarity 60.1%; Pred. No. 1.3e-54;
Matches 365; Conservative 0; Mismatches 236; Indels 6; Gaps 1;

547 TCTGGCAGTGTTCACCAACTCGTTATTGGATTGTGTAAGCTTCTTGACGCTGACT 606
173 TCGGCAAGAGCCACACACCGCTACTGCGATTGCTGCAAGACTTCTTGCGATGGAG 232
607 GGAAGACCTTCTGCTACTGCTCTGTTGACACCTGCTGCTGCTGCTGCTGCTGCTGCT 666
233 GGAAGACCTTCTGCTACTGCTCTGTTGACACCTGCTGCTGCTGCTGCTGCTGCTGCT 292
667 GATGCCAATGCTCAAAATGTTGTAAGGTTGATGATGATGATGATGATGATGATGATG 726
293 GATGCCAATGCTCAAAATGTTGTAAGGTTGATGATGATGATGATGATGATGATGATG 352
727 CTTGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 786
353 CTTGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 846
787 AAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 906
413 ACTGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 472
847 GGAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 906
473 GGAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 532
907 GATTTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 966
533 GACTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 592

QY 967 GCTCCCAATGATGCTGGGAGCTAGATATGATGATCA3CTCTGTCTGACTGTGCC 1026
 Db 593 CAACCTTCTCCGGC-----GAGCGTTACGAGAGGTGTT3GTCCCGCTTCAATGGAT 646
 QY 1027 TCTCTTCCCTCTGCTCTTCAAGCTGTTGTAATGAGATTCAGTGTGTAAGAACTCT 1086
 Db 647 GGCATGCCCAAGCTCTTGAAGAAGCGTTGCGAGTGGCGCTTCAGCTGTTCAGAACTCA 706
 QY 1087 GATAACCTTACGATGACCTTCAAGGAAGTACCGTCTGTGAATTAATTAATGCTCA 1146
 Db 707 GACACCTTACATTCAGATTGAGAGAGTTCAGATGTCACAAAGACTCATTTGCGGTCTT 766
 QY 1147 GGTTCGG 1153
 Db 767 GGGTGGG 773

RESULT 3
 US-10-007-521-7
 ; Sequence 7, Application US/10007521
 ; Publication No. US20030054539A1
 ; GENERAL INFORMATION:
 APPLICANT: Schuelein, Martin
 Andersen, Lene N.
 Laessen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366, 200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1154 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 51..935
 SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 US-10-007-521-7
 Query Match 16.0%; Score 186; DB 9; Length 1154;
 Best Local Similarity 57.1%; Pred. No. 6,4e-48;

Matches 361; Conservative 0; Mismatches 265; Indels 6; Gaps 1;
 QY 529 GTCATCTGAGGGTAAATCTGACAGTGTTCACAACTGTTATGGATTGTGTAA 588
 Db 87 GGGTGTGCTGCTCAGAGCTTGTGCTCTGTGCAATACACAGGTAAGTCTGCTCAAG 146
 QY 589 GCTTCTTGAGCTGAGCTGGAAGAGCTTCTGTCACTGTGCTCTGTTTACACTGTGCTTC 648
 Db 147 CCTCATGCGCTGGGATATGAAAGGCGGTGTCAAGCGGCGGTGTCACATGCGACAAG 206
 QY 649 AATGTATCTTTATTAATGATGCAATGCTCAAAAGTGTGTAACGCTGTATGTTTC 708
 Db 207 AACACAGCCCTTTGCGCCGCGCTGTGACGCGCTGCGACCCCAACGCGCTTGATTC 266
 QY 709 ATGTGTAACAACCAACCTTGGGCTGTCAATGATGACTGCTTAAGCTTTCGCTGT 768
 Db 267 ACCTGACAGACACCAAGCTTGGGCGCTTAAACAAATGTGCTTACGTTTGGGCT 326
 QY 769 GCCTTATTTGCTGCTCAACGAGCTGATGTTGTGCTGTATGATTAATGACCTTC 828
 Db 327 ACCGCTTCCCTGTGTGCAATAGCGTGTGTGTGCTGTGCTGTATGCTCTTCAATTTC 386
 QY 829 ACTTCTGCGCTGCTTCTGAAAAGATGTTGTTCAAGTTACCAACACCGGTGCGAT 888
 Db 387 ACATCCGCGCCGCTTGTGCTGCAAGAGATGTTGTGCAATCCACCAACTGCGGAGAT 446
 QY 889 TTAAGCTTAACCACTTATTTGCAATGCCGCGGTGTTGCTTCTTCAATGAC 948
 Db 447 CTGAGCGCACTCACTTGATATCCAGATGCCGCGGTGCTGCGATCTTCAGCGGC 506
 QY 949 TGTGCTGCTCAATGGGCGCTCCCAATGATGCTGGGAGCTAGATATGATGTGTACAC 1008
 Db 507 TGACCCCGCAGTGGGCTTAC-----GTTCCCGGACACCGCTACGCGGTACAG 560
 QY 1009 TCTGTCTGACTGTGCTCTCTCTCTCTGCTCTTCAAGCTGTGTTAAATGAGATTTC 1068
 Db 561 AGCCGACGACAGTGGCCGACGCTGCTGCTCTCTGAGCGGCTGACCTGCGCTTAC 620
 QY 1069 AACTGTTCAAGAACTCTATACCTTACATGACCTTCAAGGAATTAAGTCTGCTGTCT 1128
 Db 621 GACTGTTCAAGATGCGCAACCCCAAGTCACTGAGCGCGCTCGATGCCGCGG 680
 QY 1129 GAATTAATCTGCTGCTCAGTTGCGAAGAAA 1160
 Db 681 GCCCTACGAAACCGCTCCGCGTGCCTGCCCA 712

RESULT 4
 US-10-007-521-11
 ; Sequence 11, Application US/10007521
 ; Publication No. US20030054539A1
 ; GENERAL INFORMATION:
 APPLICANT: Schuelein, Martin
 Andersen, Lene N.
 Laessen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/10/007,521
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366-200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 1174 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 60..956
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-007-521-11
Query Match 15.8%; Score 184; DB 9; Length 1174;
Best Local Similarity 57.7%; Pred. No. 2.8e-47;
Matches 353; Conservative 0; Mismatches 250; Indels 9; Gaps 1;
QY 549 TGGAGTGGTCCCAACTCGTTATTTGGGATTTGTTAAAGCTTCTGGACGCTGGCCG 608
DB 128 TGGAGTGGTCCCAACTCGTTATTTGGGATTTGTTAAAGCTTCTGGACGCTGGCCG 187
QY 609 AAAAGCTTCTGTCACTGCTGCTGTGACACCTGCTCCAAATGATCTCTTTATTTAGA 668
DB 188 GAAAGCTTCTGTCACTGCTGCTGTGACACCTGCTCCAAATGATCTCTTTATTTAGA 247
QY 669 TGGCAATGCTCAAAAGTGTGTTAAAGCTGTGTAATGTTCTATGTTAAACAAACAAAC 728
DB 248 CTTCATATGTCAGTGGGCTGCAAGCGGCTGCGCTGCTGCTGCGCTGCGCTGCGCTG 307
QY 729 TTGGGCTGTCAATGATGAGTCTGCTTAAAGCTTGTGCTGCTGCTGCTGCTGCTGCT 788
DB 308 CTGGGCTGTCAATGATGAGTCTGCTTAAAGCTTGTGCTGCTGCTGCTGCTGCTGCT 367
QY 789 CGAAGCTGTGATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 848
DB 368 CGAATCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 427
QY 849 AAGAGATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 908
DB 428 CAAGCAATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 487
QY 909 TTGCAAAATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 968
DB 488 TATGCCATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 547
QY 969 TCCCAATGATGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1028
DB 548 CC-----TCCCGGGGCTCAATACGCGCGGCAATTCGTCGCGGACCAAGTGGATTC 598
QY 1029 TCTTCCCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1088
DB 599 CTTCCTCCGCGCTGTCAAGCCGCTGCGAGTGGGCTTTGACTGTGCTGCAAGAGCCGA 658
QY 1089 TAACCTTACATGACCTTCAGAGAAATTAACCTGCTGCTGTAATTAACCTGCTGCTGAG 1148
DB 659 CAACCGACGTTCAAGTTCAGACAGAGTGAAGTGGCCGCGGAGATCGTTGCCGCTCCGG 718
QY 1149 TTGCAAAAGAA 1160

DB 719 CTGCAAGCGCAA 730
RESULT 5
US-09-735-787-1
Sequence 1, Application US/09735787
Patent No. US20010036910A1
GENERAL INFORMATION:
APPLICANT: Rasmussen, Grethe
Mikkelsen, Jan Moller
Schuelsen, Martin
Palkar, Shankant A.
Hagen, Fred
TITLE OF INVENTION: A Cellulase Preparation Comprising an Endoglucanase Enzyme
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: NO. US20010036910A10 No. US20010036910A1disk of No. US20010036910A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/735,787
APPLICATION NUMBER: US/09/735,787
FILING DATE: 13-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/189,028
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3469-214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1160 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEtical: NO
ORIGINAL SOURCE:
STRAIN: DSM 1800
FEATURE:
NAME/KEY: mat peptide
LOCATION: 73..924
FEATURE:
NAME/KEY: sig peptide
LOCATION: 10..72
FEATURE:
NAME/KEY: CDS
LOCATION: 10..924
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-735-787-1
Query Match 15.4%; Score 179.4; DB 10; Length 1060;
Best Local Similarity 59.0%; Pred. No. 7.4e-46;
Matches 350; Conservative 0; Mismatches 231; Indels 12; Gaps 2;
QY 563 CAACCTGTATTTGGGATTTGTTAAAGCTTCTGGACGCTGGCAAGAAAGCTTCTGCTCA 622
DB 86 CCACCGCTACTGCTGCAAGCTTCTGCTGCGGCTGGGCGCAAGAGGCTTCTCCGTGA 145

QY 623 CTGGTCCTGTGACACCTGCTCCATAGTATCTTTATAGATGCAATGCTCAAA 682
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 Db 146 ACCAGCTGTCTTTCTCTGCAACGCCAATTCAGAGGTATCAAGCACTTGAGCCAACT 205
 QY 683 GTGGTTGTA---CGTGTATGTGTTTCAATGTGTAACAACAACCACTTGGGCTGTCA 739
 |||||
 Db 206 CCGGCTGCGAGCGGGCGGTGTGCTACTCGGCCCGCAAGACCCCAATGGGCTGTGA 265
 QY 740 ATGATAGCTCGCTTACGGTTTGTGCTGCTGCTCTTATGCTGCTCAACGAAGTGAAT 799
 |||||
 Db 266 ACACGACCTTCGCTCGGTTTGTGCACTCTATATGCGGCAAGCAATGAGCGGGCT 325
 QY 800 GGTGTGTGCTGTATGATGATGACCTTCACTTCTGAGCGCTTCTGAAAGAATGAG 859
 |||||
 Db 326 GGTGTGCGCTGTCTAGAGCTCACTTCACTCGGCTCTGTGTGCTGCAAGAATGAG 385
 QY 860 TTGTTCAAGTTACCAACCGGTGCGATTTAGGCTCTTAAACAATTGATTTGCAATGCG 919
 |||||
 Db 386 TCGTCAGTTCACACACACTGCGGTGATCTTGGCAGCAACCACTTCGATCTCAACATCC 445
 QY 920 CCGGTGTGCGCTGTATCTTCAATGCTGCTGCTCAATGGGCGCTCCCAATGATG 979
 |||||
 Db 446 CCGGCGGCGCGTGGCATCTTACAGGATGCACTCCCACTGCGCGGTC----- 496
 QY 980 GCTGGGAGCTAGATATGTGTGTGCTGCTCTCTGCTGCTGCTCTCTCTCTCTG 1039
 |||||
 Db 497 TCGCGGCGCAGCGCTACGGGCGATCTGCTCCGCAACAGATCGATTCGGTTCCCGAGG 556
 QY 1040 CTCTTCAAGCTGTGTATATGAGATTCATCTGTTCAAGAACTCTGATACCTTACCA 1099
 |||||
 Db 557 CCTCAAGCGCGGCTCTACTGCGCTTCACTGTTCAAGAAAGCGCGCAATCCGAGCT 616
 QY 1100 TGACCTTCAAGAGATTACTGCTGCTGATTAATTAATCTGCTGAGGTGCG 1152
 |||||
 Db 617 TCAGCTTCGCTCAAGTCCAGTCCGAGCGCTGCTGCGACCGGATGC 669

RESULT 6

; Sequence 15, Application US/10007521
 ; Publication No. US20030054539A1
 ; GENERAL INFORMATION:
 APPLICANT: Schuelein, Martin
 Andersen, Lene N.
 Laessen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: No. US20030054539A1el Endoglucaases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.

; REGISTRATION NUMBER: 33,728
 ; REFERENCE/DOCKET NUMBER: 4366.200-US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 212-867-0123
 ; TELEFAX: 212-878-9655
 ; INFORMATION FOR SEQ ID NO: 15:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 808 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 37..714
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
 US-10-007-521-15

Query Match 15.4%; Score 179.2; DB 9; Length 808;
 Best Local Similarity 58.4%; Pred. No. 7.2e-46;
 Matches 354; Conservative 0; Mismatches 243; Indels 9; Gaps 2;

QY 562 ACACTCGTATATGAGATTTGTAAGCTTTCGAGCTGCGTGAAGAAAGCTTCTGTC 621
 |||||
 Db 118 ACAGCCCGCTACTGGAGACTGTGCAAGCCCAAGCTGTGATGAGAAAGCTTCTGTT 177
 QY 622 ACTGTGCTGTGACACCTGTGCTCCAAATGATCTCTTATATGATGCCAATGCTCAA 681
 |||||
 Db 178 TCTGCTCCAGTACAGAACTTGCATGTAATGAAATACCTTGGCCCAAGCTGAAGAC 237
 QY 682 AGTGTGTGAACGTGTATATGATTTGTAATGATGTAACAACAACCACTTGGCTGTCAAT 741
 |||||
 Db 238 GATGTGATAGAGGTGAGAACGTATCTCACTTCCGGAACAATGATTCATTTGCAATGAC 297
 QY 742 GATGAGCTCGTTACGTTTGTGCTGCTCTCTATATGCTGCTCAACGAAGCTGATG 801
 |||||
 Db 298 AATTAACACTGATATATGTTTGTCTGACGCCACTTAGCGGGCTTAGCAACAGCTGCG 357
 QY 802 TGTGTGCTGTATATGATTTGACCTTTCAGCTTCTGCGCTGCTTCTGGAAGAATGATT 861
 |||||
 Db 358 TGTGTGCAAGTGTACGAATGACGTTTACAGTGAACCGGTAGTGGAGAAAGCTGACC 417
 QY 862 GTTCAAGTTACCAACACCGGTGCGATTTAGGCTCTTACCACTTTGATTTGCAATGCC 921
 |||||
 Db 418 GTTCAAGTCAAAACAAGGAGTGAACCTCGAATAATACCTTGAAGTATGATCCC 477
 QY 922 GGTGTGCGGTGTATCTTCA---ATGCTGTGCTGCTCAATGGGCGCTCCCAATGAT 978
 |||||
 Db 478 GGTGAGGTGTGTGCTTCAACAAGGATGTCTGCTCAGTTGGAGCTGGAACG-- 535
 QY 979 GGTGGGAGCTAGATATGATGTGTGAGCTGTCTCTGACTGTGCTCTCTCTCTCTCT 1038
 |||||
 Db 536 ---GGGGTGCTCAATACGGGGGTGTGTCACCGCTGACCAATGCTCCCACTTCCAGA 591
 QY 1039 GCTTTCAGCTGTGTATATGAGATTTCACTGTTCAAGAACTCTGATTAACCTTACC 1098
 |||||
 Db 592 GCTGTCAAGCTGTATGATTAATTCGCTTTCAGCTGATGGGCGGATTAACCCCAAC 651
 QY 1099 ATGACCTTCAAGAAAGTTACTGCTCTGCTGTAATTAATTAATCTGCTGAGTTGCGAAGA 1158
 |||||
 Db 652 GTACCTTCGACCTGTGACCTGCCAGGAGCTACATAATATCTCGGGCTGTGTCTGT 711
 QY 1159 AAGTAA 1164
 |||||
 Db 712 AATAGA 717

RESULT 7

; Sequence 23, Application US/09261329
 ; Publication No. US20030092097A1
 ; GENERAL INFORMATION:
 APPLICANT: Andersen, Klm

APPLICANT: Schuelein, Martin
 APPLICANT: Christiansen, Lars
 APPLICANT: Damgaard, Bo
 APPLICANT: Von Der Osten, Claus
 TITLE OF INVENTION: Cellulase Variants
 FILE REFERENCE: 4887.204-US
 CURRENT APPLICATION NUMBER: US/09/261.329
 EARLIER FILING DATE: 1999-03-03
 EARLIER APPLICATION NUMBER: 1013/96
 NUMBER OF SEQ ID NOS: 26
 NUMBER OF SEQ ID NOS: 1996-09-17
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 23
 LENGTH: 1261
 TYPE: DNA
 ORGANISM: Humicola grisea
 US-09-261-329-23

Query Match 15.4%; Score 179.2; DB 9; Length 1261;
 Best Local Similarity 56.4%; Pred. No. 9.6e-46;
 Matches 359; Conservative 0; Mismatches 268; Indels 9; Gaps 1;

528 GGTATCTCTGCGGCTTAATCTGGAGTGTTCACAACTGCTATTGGGATTGTGTA 587
 93 GCTCCCCCTTGGCGACTGCGCGGATGGCAAGTCCAGATACAGAGGAGCTGCTCA 152
 588 AGCTTCTGACAGCTGGCTGGAAGAGCTTCTGTCACTGCTCTTGAACCTGCTG 647
 153 GCGATGCTCTCTTGGCGCGGAAAGCACTGTAAGCAGCTGCTTCACTTGGAGCG 212
 648 CAATGTATCTCTTATTGATGCAATGCTCAAGTGTGTAACGCTGTAATGCTT 707
 213 CAATTCAGCGCATCACGAGCCCAATACAGTGGCTGCTGCAAGCGGCTGCGCTT 272
 708 CATTGTACCAACCAACTTGGGCTGTCATATGATGAGCTGCTTACGCTTTCGCTGC 767
 273 TTGCTGTGTCAGACCAACCCCTGCTGAGACGATGCTGCTTATGCTGCTGCTC 332
 768 TGCCTTATGCTGCTGCTCAACGAGCTGATGCTTGTGCTTATGATGACCTT 827
 333 CACGGCTATTTGGGCTGATCGGAGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 392
 828 CACTTGGCGCTGCTTCTGGAAGAAGATGCTTCAAGTATACCAACCGCTGCGCA 887
 393 CACTTGGCGCTGCTTCTGGAAGAAGATGCTTCAAGTATACCAACCGCTGCGCA 452
 888 TTAGGCTTACCACTTATGATGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 947
 453 TCTGCGAGCAACATTTGCACTTCCAGATTCAGGCGGCTGCTGCTGCTGCTGCT 512
 948 CTGCTGCTCAATGGGCGCTCCCATGATGCTGCGGAGCTGATGATGCTGCTGCT 1007
 513 GTGCAACCCCGCTGCTGAGATCTGCT-----GGGAGCGCTGAGTGGCATCTC 563
 1008 CTCTGCTCTGACTGCTGCTCTCTTCCCTGCTCTTCAAGCTGCTGTAAGAGAT 1067
 564 AGACCGAGCTCTGCGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 623
 1068 CAATGCTTCAAGAACTGTAATACCTACCATGACCTTCAAGAACTTCTGCTGCT 1127
 624 CGATTGCTCAAGAACTGTAATACCTACCATGACCTTCAAGAACTTCTGCTGCT 683
 1128 TGAATTACTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1163
 684 CGAGCTTGTGCGAGAGCGGCTGCAACCGGAGGA 719

RESULT 8
 US-10-007-521-3
 Sequence 3, Application US/10007521
 Publication No. US20030054539A1
 GENERAL INFORMATION:
 APPLICANT: Schuelein, Martin

Andersen, Lene N.
 Laesen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: No. US20030054539A1 Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20030054539A10 No. US20030054539A1disk of No. US20030054539A1
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007.521
 FILING DATE: 10-Dec-2001

PRIOR APPLICATION DATA:
 CLASSIFICATION: <Unknown>

APPLICATION NUMBER: US/08/651.136
 FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:

LENGTH: 894 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single

TOPOLOGY: linear
 MOLECULE TYPE: cDNA

FEATURE:
 NAME/KEY: CDS

LOCATION: 1..891

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Query Match 15.4%; Score 179; DB 9; Length 894;
 Best Local Similarity 62.8%; Pred. No. 8.8e-46;
 Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

694 GGTGTAATGCTTCAATGTAACCAACCAACTTGGGCTGTCATGATGAGTCTGCT 753
 211 GGGCGAGCGCTTCAATGTAACCAACCAACTTGGGCTGTCATGATGAGTCTGCT 270
 754 TACGCTTGGCTGCTCTTATGCTGCTTCAAGAGCTGATGATGATGATGATGAT 813
 271 TACGCTGCGGCGGCTTCAAGCTGCGGAGCTTCAAGAGCTGATGATGATGATGAT 330
 814 TATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 873
 331 TACGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 390
 874 AACACCGTGGAGATTAGGCTTCAACCACTTGAATGATGATGATGATGATGATGAT 933
 391 AACACCGTGGAGATTAGGCTTCAACCACTTGAATGATGATGATGATGATGATGAT 450
 934 GGTATCTTCAATGCTGCTGCTTCAATGCTGCTTCAATGCTGCTTCAATGCTGCT 993
 451 GGTATCTTCAATGCTGCTGCTTCAATGCTGCTTCAATGCTGCTTCAATGCTGCT 510
 994 TATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1053

Db 511 TAGGGGGGATTCATTCAGAGAGGTGGGAATCCCTCCGAGAGGCCCTCAAGCCCGGC 570
Qy 1054 TGTAAATGAGATTCAACTGTTTCAAGAACTCTGATTAACCTTACATGACCTTCAAGGAA 1113
Db 571 TGCAGCTGGGGCTTGCATGTTTCCAAAGCCGACAAACCCGTCGCTCCTTCCAGAG 630
Qy 1114 GTTACCTGTCCTGCTGAATTAC 1136
Db 631 GTGGCTTCCCTGTCGAGAGCTCAC 653

RESULT 9
US-10-007-521-5
; Sequence 5, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schuelein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kaupinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. US20030054539A10 No. US20030054539A1disk of No. US20030054539A1
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 927 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..924
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-007-521-5

Query Match 15.4%; Score 179; DB 9; Length 927;
Best Local Similarity 62.8%; Pred. No. 9e-46;
Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

Qy 694 GGTGTAAATGATTTGATGTGTAAACAAACCACTTGGGCTGTGAATGATGAGCTCGCT 753
Db 211 GGCGGAGCGCCCTAATGATGTCTCTCCCAAGAGCCCTCGGAGCCGTCAGAGAGAGCTGTG 270

Qy 754 TAGGTTTGCTGCTGCTCTCTAATGCTGCTCCAAAGAGCTGAATGATGTTGCTGT 813
Db 271 TAGGCTGGGCGGCGCTCAAGCTCGCGGAGCTCCGATCCGAGTGTGCTGCGCTTC 330
Qy 814 TATGAATGACCTTCACTTCTGCGCTGCTTGTGAAAGATGTTTCAAGTTAC 873
Db 331 TAGAGCTACCTTCAACGAGCGGCGGTGCGGGGCAAGATGATTTGTGACAGGCGACC 390
Qy 874 AACACCGGTGGGATTTAGGCTTAAACCACTTTGATTTGCAAAATGCGCGGTGCTGCT 933
Db 391 AACACCGGTGGGAGCTTGGGCGAACCACTTTGACCTGCGCATCCCGGTGCGGTGTC 450
Qy 934 GGATCTTCAATGCTGCTGCTGCTCAATGCGGCGCTCCCAATGATGCTGGGAGCTAGA 993
Db 451 GGATTTTCAAGCGCTGCAACGACGATACGGGCGCTCCCGCAAGCGCTGGGCGACCGC 510
Qy 994 TATGCTGTGCTGAGCTCTGCTCTGACCTGCTCTTCTTCCCTGCTCTTCAAGCTGTG 1053
Db 511 TAGGGGGGATTCATTCAGAGAGGTGGGAATCCCTCCGAGAGGCCCTCAAGCCCGGC 570
Qy 1054 TGTAAATGAGATTCAACTGTTTCAAGAACTCTGATTAACCTTACATGACCTTCAAGGAA 1113
Db 571 TGCAGCTGGGGCTTGCATGTTTCCAAAGCCGACAAACCCGTCGCTCCTTCCAGAG 630
Qy 1114 GTTACCTGTCCTGCTGAATTAC 1136
Db 631 GTGGCTTCCCTGTCGAGAGCTCAC 653

RESULT 10
US-10-007-521-1
; Sequence 1, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:
; APPLICANT: Schuelein, Martin
; Andersen, Lene N.
; Lassen, Soren F.
; Kaupinen, Markus S.
; Lange, Lene
; Nielsen, Ruby I.
; Ihara, Michiko
; Takagi, Shinobu
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
; NUMBER OF SEQUENCES: 109
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. US20030054539A10 No. US20030054539A1disk of No. US20030054539A1
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/007,521
; FILING DATE: 10-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/651,136
; FILING DATE: 21-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4366,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:

LENGTH: 960 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 113..787
SEQUENCE DESCRIPTION: SEQ ID NO: 1
US-10-007-521-1

Query Match 15.4%; Score 179; DB 9; Length 960;
Best Local Similarity 62.8%; Pred. No. 9.3e-46;
Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

QY 694 GGTGTATATGTTTCAATGTGTAAACAACCAACCTTGGGCTGTCAATGATGAGCTGCT 753
DB 323 GGCAGGAGCGCTTCAATGTGTCTCTCCAGAGCCCTGGGCGCTCAAGAGAGCTGTG 382
QY 754 TAGGTTTCGCTGCTGCTCTATTGCTGCTCAAGAGAGCTGATGTTGCTGT 813
DB 383 TAGGCTGGGCGGCGCTCAAGCTGCGGAGCTCCAGTCCAGTGTGCTGTGCTGCTG 442
QY 814 TATGAATTGACCTTCACTTCTGCGGCTGCTTGTGAAAGAAAGATGTTTCAAGTTAC 873
DB 443 TAGAGCTGACCTTCAACAGCGGCGGCTGCGGCAAGAGATGATGTGCAAGCGAC 502
QY 874 AACCGGCTGCGGCTTGAAGCTTAAACCACTTATTTGCAATGCCGCGGTGGGCTT 933
DB 503 AACCGGCTGCGGCTTGAAGCTTAAACCACTTATTTGCAATGCCGCGGTGGGCTT 933
QY 934 GGTATCTTCAATGAGCTGTGCTCAATGAGGCGCTCCCAATGATGCTGGGAGCTAGA 993
DB 563 GGTATCTTCAATGAGCTGTGCTCAATGAGGCGCTCCCAATGATGCTGGGAGCTAGA 993
QY 994 TATGAGTGTGAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 1053
DB 623 TACGCGGCTGCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 682
QY 1054 TGTAAATGAGATTCACCTGTTCAAGAACTCTAATAACCTTACATGACCTTCAAGAA 1113
DB 683 TGAACCTGCGCTTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 742
QY 1114 GTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1136
DB 743 GTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 765

RESULT 11
US-10-007-521-19
Sequence 19, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT: Schuelein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. US20030054539A1 No. US20030054539A1disk of No. US20030054539A1

STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-May-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1031 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 11..889
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-007-521-19

Query Match 15.3%; Score 178.4; DB 9; Length 1031;
Best Local Similarity 58.5%; Pred. No. 1.5e-45;
Matches 352; Conservative 0; Mismatches 241; Indels 9; Gaps 2;

QY 562 ACAACCTGATATGAGATTTGTTAAAGCTTCTTGACAGCTGCGCTGAAAGCTTGTCT 621
DB 77 ACAACCTGATATGAGATTTGTTAAAGCTTCTTGACAGCTGCGCTGAAAGCTTGTCT 621
QY 622 ACTGCTGCTGTTGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 661
DB 137 TCTGCTGCTGTTGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 136
QY 682 AGTGTGTTAAAGCTGTTAATGTTTCAATGTTAATGTTAATGTTAATGTTAATGTTA 741
DB 197 GATGTGTTAAAGCTGTTAATGTTTCAATGTTTCAATGTTTCAATGTTTCAATGTTT 741
QY 742 GATGAGCTGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTAC 801
DB 257 AATTAACCTGATATGTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 316
QY 802 TGTGTTGCTGTTATGATATGATATGATATGATATGATATGATATGATATGATATGAT 861
DB 317 TGTGTTGCTGTTATGATATGATATGATATGATATGATATGATATGATATGATATGAT 376
QY 862 GTTCAAGTTTCAACACCGGTGCGATTTAGGCTTACCACTTGTGTTGCAATGCC 921
DB 377 GTTCAAGTTTCAACACCGGTGCGATTTAGGCTTACCACTTGTGTTGCAATGCC 921
QY 922 GGTGTTGCTGTTGATCTTCA--ATGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCT 978
DB 437 GGTGTTGCTGTTGATCTTCA--ATGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCT 494
QY 979 GGTGTTGCTGTTGATCTTCA--ATGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCT 1038
DB 495 ---GGGCTCTCAATACGGGGGTGTGTCCAGCCGTGACCAATGCTCCAACTTCCAGCA 550
QY 1039 GCTTTCAAGCTGTTGATATGATATGATATGATATGATATGATATGATATGATATGAT 1098
DB 551 GCTTTCAAGCTGTTGATATGATATGATATGATATGATATGATATGATATGATATGAT 610
QY 1099 ATGACCTTCAAGAAAGTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1158
DB 611 GTACCTTCCAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 670

QY 1159 AA 1160
Db 671 AA 672

RESULT 12

US-10-007-521-17
Sequence 17, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schulein, Martin
Andersen, Lene N.
Laessen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases

NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:

ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366,200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 1048 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS
LOCATION: 13..906

SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-007-521-17

Query Match 15.3%; Score 178.4; DB 9; Length 1048;
Best Local Similarity 58.5%; Pred. 1.5e-45;
Matches 352; Conservative 0; Mismatches 241; Indels 9; Gaps 2;

QY 562 ACACTGCTTATTGGATTGTTGAAGCTTTTCGACGCTGCGCTGGAAGAGCTTCTGTC 621
Db 94 ACCACCCGCTACCTGGAGCTGCTCAAGCCAGGCTGTGATGAGTGGAAAGGCTTCTGTT 153
QY 622 ACTGTCCTGTTGACACCTGCTGCTCAATGATCTTATTATTAAGTGCATGCTCA 681
Db 154 TCTGCTCAGTCAAGAACTTGCATCGTAATGAATAATCACTTGGCCAGACGTGAAGAC 213
QY 682 AGTGGTTGTAACGCTGTGTAATGTTTCATGTGTAACAACAACCACTTGGGCTGTCAAT 741

Db 214 GGATGTGATGAGCGGTGGAAGCTCAATTCACCTGCGCGAACAATGTCATTGCGATTGAC 273
QY 742 GATGAGCTGCTTAAGCTTTGCTGCTGCTCTATATTGCGGCTCCACGAAGCTGATG 801
Db 274 AATAACATGCAATGTTTCTGCTGAGCCACTTAGCGGGCTCTAGCAAGACGCTGG 333
QY 802 TGTGTGCTGTTATTAATTTGACCTTCACTTCGCGCTGCTTCTGGAAGAAGATGTT 861
Db 334 TGTGCGACATGCTACGAATTTGAAGTTCAGATGAGACCGGTAGTTGGAAAGAACTGAC 393
QY 862 GTTCAAGTTACCAACACCGGTGCGATTTAGGCTTAACCACTTGATTTGCAATGCC 921
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QY 922 GGTGTGCGCTGTTATCTTCA---ATGCTGTGCTGCTCAATGGGCGCTCCCATGAT 978
Db 454 GGTGAGGTTGTGGCTCTTCAACAAGGATGCTGCTCAATTTGGAGCTGGAACG-- 511
QY 979 GCGTGGGAGCTAGATATGATGTTGTCAGCTCTGTCTGACTGTGCTCTCTCTCCCTCT 1038
Db 512 ---GGGCTGCTCAATGCGGGGTGTGTGTCAGCCGACCAATGCTCCAACTTCAGCA 567
QY 1039 GCTTTCAGCTGTGTTGAATGAGATTCAACTGTGTTCAAGAACTTGATAACCTTACC 1098
Db 568 GCTGTCAAGCTGAGATGATCAATTCGTTTCACTGATGGTGGCGCGGATTAACCCCAAC 627
QY 1099 ATGACCTTCAAGGAAGTTACTGCTGCTGTAATTACTGCTGCTGCTGCTGCTGCTG 1158
Db 628 GTACCTTCCAGCTGTGACTGTCGCCAGCGAGCTCACTAATATCTGCGGCTGTGTTGT 687
QY 1159 AA 1160
Db 688 AA 689

RESULT 13

US-10-007-521-21

Sequence 21, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schulein, Martin
Andersen, Lene N.
Laessen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases

NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:

ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366,200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 1132 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 42..971

SEQUENCE DESCRIPTION: SEQ ID NO: 21:

US-10-007-521-21

Query Match 15.3%; Score 177.6; DB 9; Length 1132;
 Best Local Similarity 57.1%; Pred. No. 2.9e-45;
 Matches 346; Conservative 0; Mismatches 254; Indels 6; Gaps 1;

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 96 TCTGGCACCGCCGACACACAGTACTGGACTGTGCAAGCCGTCTCGGGTGGAC 155
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 607 GGAAGAGCTTCTGCTCACTGCTCTGTTGACACCTGTGCTCCCAATGGTATCTTTATTA 666
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 156 GAAAGGCTTCTGCTCACTGCTCTGTTGACACCTGTGCTCCCAATGGTATCTTTATTA 215
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 667 GATGCCAATGCTCAAGTGTGTGTAACGGTGTATGTTGATGTATCAACACACAA 726
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 727 CTTGGGCTGCTCAATGATGATGCTGCTTAAAGCTTTGCTGCTGCTCATTTGCTGCTCC 786
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 276 CCGTGGGCTGCAACGATACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 335
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 787 AACGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 846
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 336 TCGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 395
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 907 GATTGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 966
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RESULT 14

US-10-007-521-13

Sequence 13, Application US/10007521

Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT: Schuelein, Martin

Andersen, Lene N.

Lassen, Soren F.

Kaupinen, Markus S.

Lange, Lene

Nielsen, Ruby I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A1 No. US20030054539A1disk of No. US20030054539A1

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 913 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 41..706

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-10-007-521-13

Query Match 14.5%; Score 168.4; DB 9; Length 913;
 Best Local Similarity 56.5%; Pred. No. 2e-42;
 Matches 357; Conservative 0; Mismatches 266; Indels 9; Gaps 2;

536 CTGGCGTAAATCTGACAGTGTTCACAACTGTTATTTGGATTGTTAAAGCTTTCTT 595
 |||||
 84 CTGCACTGAAGCACTAGCGGCGGTGACAAACAGTACTGGACTGTCGAACCCGCTCTT 143
 |||||
 596 GCAAGCTGCTGGAAGAAAGCTTCTGTCACTGCTCTGTTGACACACTGCTCCAAATGTA 655
 |||||
 144 GTGCTTGAAGGGCAAGCAATCGTCTTCAAGCCCGTGGAACTGCGAATCAATCAAGACA 203
 |||||
 656 TCTCTTATTAAGATGCAATGCTCAAGTGTGTTGTAACGCTGTTAATGTTTATGAT 712
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 204 ACGCCAGAGCCGAGGATCTGCTCAAGTCGTCGTGTATGCGGCAAGGCTTACTACT 263
 |||||
 713 GTAACAAACAACAACTTGGGCTGTCAATGATAGCTGCTTACGTTTGTGCTGCTGCT 772
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 264 GACGCAACAGGGCCCATGGGCGGTGAAACGACAGCTTTCTTCAAGCTTGTGCTGCGCCA 323
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 773 CTATGTGCTCCAAAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 832
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 324 AGCTGCTCGAAGAAAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 892
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 833 CTGGCGCTGCTTCTGAAAGAAAGATGTTTCAAGTTTCAACACCGGTGGCGATTTAG 892
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 384 CCACCGCGTTTCCGGCAACCAATGATGTTGCAATCAAGAACACGCGGCGGCACTCG 443
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